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AUTHOR Canipe, Stephen L.
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ABSTRACT

A simple "menu-driven" microcomputer program on map studies, designed to teach the geography of South America and certain economic facts about its countries, is presented. The program is written for an Apple II+ or Apple IIe computer; use on any other microcomputer will require substantial changes due to high resolution drawings and shape tables employed in the program. The preliminary program presents an introductory screen of a colorful map of South America, followed by a credit screen. After the name of the country is determined by the student, the program presents a drawing of the entire continent of South America. The program then begins to draw the various South American countries to the right of a blank map of South America. As each country is presented, a series of questions are asked about the country being displayed, such as questions about per capita income, major products, capital cities, and major rivers. The program then checks the student's answer and will not allow a choice not presented on a list of numbered options. In addition, there is a provision for the student to have a blank map of the continent and to place numbers which designate countries on the map. Teachers have the option to make refinements by changing the questions or by adding more and more difficult questions. (LH)

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Map Study

Stephen L. Canipe

1983

SP 014 776

South America Map Lesson
teacher notes

The computer program attached to these notes can be used to help teach the geography of South America and certain economic facts about the countries. The program is written for an Apple II+ microcomputer but should also run on the new Apple IIe. Use of this program on any other microcomputer will require substantial changes since there are high resolution drawings and shape tables employed in the program.

The listings for the high resolution pictures and shape tables were prepared using the VersaWriter digitizing tablet. Other digitizers would work equally well. Teachers may want to enter their own data for the drawings or may prefer to obtain the required shape tables and drawings by sending a 5 1/4 inch diskette for the Apple to:

Dr. Stephen L. Canipe
2301 E. Providence Dr.
Matthews, NC 28105

Also there should be a self-addressed, stamped mailer enclosed to return the diskette to the sender. THESE ITEMS MUST BE INCLUDED!! The proper files will be copied onto the diskette and returned to the teacher. The teacher may request the entire program be copied onto the diskette along with the files, thus saving the typing time.

ALL OF THIS IS AVAILABLE TO THE TEACHER AT NO COST!!!!!

Operation of the Program

The program is a very simple program to run since it is a "menu-driven" program. This means that whenever there is a choice that the student can make a list of numbered options are presented and a request that one of the list be chosen. The program checks and will not allow a choice not presented on the menu (list).

Once the preliminary program has been loaded into the computer, the computer finds out such things as the student's name. The preliminary program presents an introductory screen of a colorful map of South America followed by the credit screen. (See Fig. 1).

After the name is determined the program presents a drawing of the entire continent of South America. (See Fig. 2)

The program then begins to draw (using the shape tables) the various South American countries to the right of a blank map of South America. As each country is presented there are a series of questions asked about the country being displayed. This continues for all of the countries. In addition, there is a provision for the student to have a blank map of the continent and to place the appropriate number (the program gives the number) on the map in the proper place.

There are a number of refinements which could be made by the teacher including changing the questions or by adding more or more difficult questions. These options are up to the teacher.

FOLLOWING IS THE INTRODUCTORY PROGRAM IN THE SOUTH AMERICA MAP LESSON.

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1  FOR A = 1 TO 5: FOR B = 1 TO 5
5  GR : COLOR= 15: HLIN A,B AT A: VLIN
A,B AT B: NEXT B: NEXT A
10  TEXT : HOME : VTAB (10)
20  PRINT "HELLO AND WELCOME TO THE
SOUTH AMERICAN": PRINT "MAP ADVENTURE."
25  PRINT : PRINT : PRINT : PRINT :
INVERSE
30  PRINT "THERE ARE TWO TYPES OF
PROGRAMS WHICH": PRINT "ARE
AVAILABLE--1.QUESTIONS WITHOUT MAPS":
PRINT "AND              2.QUESTIONS WITH
MAPS"
35  NORMAL
36  ONERR  GOTO 10
40  PRINT "WHICH DO YOU WANT? PRESS 1 OR
2 AND": PRINT "THEN PRESS THE RETURN
KEY.": GET Z
45  IF Z < 1 OR Z > 2 THEN 45
50  IF Z = 1 THEN  PRINT " RUN APPLE
TEACHER"
55  IF Z = 2 THEN  PRINT " RUN MAP"
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10  REM  SOUTH AMERICA MAP PROGRAM
20   TEXT  : HOME : PRINT "W E L C O M E
TO THE M A P  LESSON"
25   PRINT  :  PRINT  :  PRINT  "    THIS
LESSON  WILL  ASK QUESTIONS ABOUT": PRINT
"SOUTH  AMERICAN  COUNTRIES.   A  MAP  OF
THE":  PRINT  "ENTIRE  CONTINENT  WILL BE
DISPLAYED  ON":  PRINT  "THE  LEFT OF THE
SCREEN AND THE COUNTRY"
26   PRINT  "ABOUT  WHICH  THE  UUESTIONS
FOCUS  WILL  BE":  PRINT "ON THE RIGHT OF
THE SCREEN."
27   INVERSE  :  PRINT  "YOU  MUST HAVE A
BLANK  MAP OF SOUTH": PRINT "AMERICA WHEN
YOU USE THIS PROGRAM.": NORMAL
30   PRINT  :  PRINT  :  PRINT  : PRINT :
PRINT  "WHAT  IS  YOUR NAME (TYPE IN NAME
AND  ":  PRINT  "PRESS THE RETURN KEY.)":
INPUT NA$
35   HOME : VTAB (15): PRINT "WELCOME
";NA$
39   PRINT  :  PRINT  : PRINT "TO THE MAP
LESSON.   IF  YOU  ARE READY ": INVERSE :
PRINT  :  PRINT : PRINT "PRESS ANY KEY TO
CONTINUE THE PROGRAM  "
40  GET Z$
41  NORMAL
42  PRINT
1000  POKE 232,0: POKE 233,86
1010  HGR
1020  HCOLOR= 3
1030  ROT= 0: SCALE= 1
1040  PRINT " BLOAD SOUTH AMERICA-LEFT"
2000  PRINT " BLOAD VENE"
2005  PRINT : PRINT
2010  DRAW 1 AT 100,60
2030   PRINT  "WHAT  IS  THE NAME OF THIS
COUNTRY?":  INPUT V$: IF V$ = "VENEZUELA"
THEN  PRINT "CORRECT"
2032   IF V$ <  > "VENEZUELA" THEN  PRINT
"SORRY THE COUNTRY IS VENEZUELA"
2050   PRINT "WHICH IS THE CLOSEST TO THE
PER   CAPITA":  PRINT  "INCOME...A-$5000
B-$3000  C-$200  D-$900": INPUT A$: IF A$
<   >  "B"  THEN   PRINT  "THE  ANSWER IS
$3000 PER CAPITA"
2060   PRINT  "WHICH  OF THE FOLLOWING IS
NOT   A  MAJOR":  PRINT  "PRODUCT?  A-OIL
B-IRON  C-SHIPS D-PAPER": INPUT A$: IF A$
<   > "C" THEN  PRINT "THERE ARE NO SHIPS
PRODUCED HERE."
2070    PRINT   "TYPE  THE  NAME  OF  THE
CAPITAL":  INPUT A$: IF A$ <  > "CARACAS"
THEN  PRINT "CARACAS IS THE CAPITAL"
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2080   PRINT "WHICH IS THE MAJOR RIVER IN
VENEZUELA?": PRINT "A-ORINOCO B-AMAZON
C-RIO D-GRANDE": INPUT A$: IF A$ < >
"A" THEN PRINT "THE ORINOCO DRAINS 80%
OF THE COUNTRY."
2090   INVERSE : PRINT "PLACE A '1' ON
YOUR MAP WHERE VENEZUELA": PRINT "IS
FOUND.  THEN PRESS 1 TO CONTINUE": INPUT
A: NORMAL : IF A < > 1 THEN GOTO 2090
2999  XDRAW 1 AT 100,60
3000  REM GET ANOTHER COUNTRY
3001  PRINT " BLOAD COL/GUI"
3010  DRAW 1 AT 100,60
3020   PRINT "WHAT IS THE NAME OF THIS
COUNTRY?": INPUT A$: IF A$ < > =
"COLOMBIA" THEN PRINT "COLOMBIA IS THIS
COUNTRY."
3030   PRINT "WHAT IS THE CAPITAL OF
COLOMBIA?": INPUT A$: IF A$ < > =
"BOGOTA"  THEN  PRINT "BOGOTA IS THE
CAPITAL."
3040   PRINT "WHICH IS CLOSEST TO THE PER
CAPITA ": PRINT "INCOME A-$900 B-$3000
C-$5000 D-$200": INPUT A$: IF A$ < > =
"A" THEN PRINT "THE AVERAGE IS ONLY
$900!"
3050   PRINT "WHICH OF THE FOLLOWING IS
NOT A MAJOR": PRINT "PRODUCT? A-COFFEE
B-WHEAT C-BANANAS": INPUT A$: IF A$ < >
= "B" THEN PRINT "LITTLE WHEAT IS GROWN
HERE."
3060   INVERSE : PRINT "PLACE A '2' ON
YOU MAP WHERE COLOMBIA IS";: PRINT
"FOUND. THEN PRESS 2 AND RETURN TO GO
ON.";: INPUT A: NORMAL : IF A < > 2
THEN GOTO 3060
3499  XDRAW 1 AT 100,60
3500  DRAW 2 AT 170,60
3510   PRINT "WHICH COUNTRY IS NOT IN
THIS GROUP?": PRINT "A-GUYANA B-URUGUAY
C-SURINAM D-FRENCH GUIANA": INPUT A$:
IF A$ < > "B" THEN PRINT "URUGUAY IS
NOT IN THIS GROUP."
3520   PRINT "WHICH IS CLOSEST TO THE PER
CAPITA": PRINT "INCOME OF SURINAM?
A-$1300 B-$600 C-$500";: INPUT A$: IF A$
< > "A" THEN PRINT "$1300 IS THE
CORRECT ANSWER"
3530   PRINT "WHICH IS CLOSEST TO THE PER
CAPITA": PRINT "INCOME OF FR. GUIANA?
A-$800 B-$4000": INPUT A$: IF A$ < > =
"A" THEN PRINT "THIS POOR COUNTRY HAS
ONLY $800/PERSON"
3540   PRINT "WHICH IS THE CLOSEST TO THE
PER CAPITA": PRINT "INCOME OF GUYANA?
A-$500 B-$1000 C-$2000";: INPUT A$: IF
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A$ < > = "A" THEN PRINT "THIS
COUNTRY'S PER CAPITA IS $500."
3560 INVERSE : PRINT "PLACE A '3' ON
YOUR MAP WHERE SURINAM ": PRINT "IS
FOUND. THEN PRESS 3 AND RETURN.": INPUT
A: IF A < > 3 THEN GOTO 3560
3561 PRINT "PLACE A '4' ON YOUR MAP
WHERE FRENCH": PRINT "GUIANA IS. THEN
PRESS 4 AND RETURN.": INPUT A: IF A < >
4 THEN GOTO 3561
3562 PRINT "PLACE A '5' ON YOUR MAP
WHERE GUYANA": PRINT "IS FOUND. THEN
PRESS 5 AND RETURN.": NORMAL : INPUT A:
IF A < > 5 THEN GOTO 3562
3999 XDRAW 2 AT 170,60
4000 REM LOAD NEW COUNTRIES
4001 PRINT " BLOAD BRA/EQ/URU"
4010 DRAW 1 AT 170,60
4020 PRINT "WHAT IS THE NAME OF THIS
COUNTRY?": INPUT A$: IF A$ < > =
"PARAGUAY" THEN PRINT "THIS IS
PARAGUAY"
4030 PRINT "WHICH IS CLOSEST TO THE PER
CAPITA ": PRINT "INCOME? A-$800 B-$2000
C-$300 D-$3000": INPUT A$: IF A$ < > =
"A" THEN PRINT "$800 IS ALL THAT IS
HERE."
4040 PRINT "WHICH IS NOT A MAJOR
PRODUCT? A-COTTON": PRINT "B-OILSEED
C-COFFEE D-WHEAT": INPUT A$: IF A$ < >
= "C" THEN PRINT "COFFEE IS NOT
PRODUCED IN PARAGUAY."
4050 INVERSE : PRINT "PLACE A '6' ON
YOUR MAP WHERE PARAGUAY": PRINT "IS
FOUND. THEN PRESS A 6 AND RETURN.":
INPUT A: NORMAL : IF A < > 6 THEN GOTO
4050
4399 XDRAW 1 AT 170,60
4410 DRAW 2 AT 170,60
4420 PRINT "WHAT IS THE NAME OF THIS
COUNTRY?": INPUT A$: IF A$ < > =
"ECUADOR" THEN PRINT "THIS IS ECUADOR."
4430 PRINT "WHICH IS CLOSEST TO THE PER
CAPITA ": PRINT "INCOME? A-$800 B-$2000
C-$300 D-$5000": INPUT A$: IF A$ < > =
"A" THEN PRINT "YOU ARE NOT CORRECT. IT
IS $800!"
4440 PRINT "WHICH IS NOT A MAJOR
PRODUCT? A-COFFEE": PRINT "B-OIL C-WHEAT
D-BANANAS": INPUT A$: IF A$ < > = "C"
THEN PRINT "WHEAT DOES NOT GROW HERE."
4450 INVERSE : PRINT "PLACE A '7' ON
YOUR MAP WHERE ECUADOR ": PRINT "IS
FOUND. THEN PRESS A 7 AND RETURN.":
INPUT A: NORMAL : IF A < > 7 THEN GOTO
4450
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4799  XDRAW 2 AT 170,60
4810  DRAW 3 AT 100,60
4820   PRINT "WHAT IS THE NAME OF THIS
COUNTRY?": INPUT A$: IF A$ < > =
"BRAZIL" THEN PRINT "BRAZIL BRAZIL B R
A Z I L !!"
4830   PRINT "WHAT IS THE PER CAPITA
INCOME? A-$1200": PRINT "B-$400 C-$700
D-$3000": INPUT A$: IF A$ < > = "A"
THEN PRINT "YOU ARE WRONG IT IS $1200."
4840    PRINT "WHICH IS NOT A MAJOR
PRODUCT?   A-COFFEE":   PRINT "B-RICE
C-STEEL D-ALL ARE PRODUCTS": INPUT A$:
IF A$ < > = "D" THEN PRINT "ALL OF
THESE ARE MAJOR PRODUCTS!"
4850   INVERSE : PRINT "PLACE AN 8 ON
YOUR MAP WHERE BRAZIL ": PRINT "IS
FOUND. THEN PRESS AN 8 AND RETURN":
INPUT A: NORMAL : IF A < > 8 THEN GOTO
4850
4999  XDRAW 3 AT 100,60
5000  REM GET MORE COUNTRIES
5010  PRINT " BLOAD PER/BOL"
5020  DRAW 1 AT 170,60
5030   PRINT "WHAT IS THIS COUNTRY?":
INPUT A$: IF A$ < > "BOLIVIA" THEN
PRINT "THIS IS B O L I V I A ."
5040   PRINT "WHICH IS CLOSER TO THE PER
CAPITA": PRINT "INCOME? A-$800 B-$1000
C-$250 D-$2000": INPUT A$: IF A$ < > =
"A" THEN  PRINT "THE PER CAPITA INCOME
IS $800."
5050    PRINT "WHICH IS NOT A MAJOR
PRODUCT?  A-POTATOES";:  PRINT "B-CORN
C-OIL D-BARLEY": INPUT A$: IF A$ < > =
"D" THEN  PRINT "THERE IS NO BARLEY
GROWN IN BOLIVIA."
5498   INVERSE : PRINT "PLACE A '9' ON
YOUR MAP WHERE BOLIVIA ": PRINT "IS
FOUND. THEN PRESS A 9 AND RETURN":
INPUT A: NORMAL : IF A < > 9 THEN GOTO
5498
5499  XDRAW 1 AT 170,60
5510  DRAW 3 AT 140,60
5520   PRINT "WHAT IS THE NAME OF THIS
COUNTRY?": INPUT A$: IF A$ < > =
"PERU" THEN PRINT "THIS IS PERU-LAND OF
THE INCAS!"
5530   PRINT "WHAT IS THE MAJOR FARM
PRODUCT OF PERU?": INPUT A$: IF A$ < >
= "CORN" THEN  PRINT "CORN NOW ,AS IN
THE TIME OF THE INCAS."
5540    PRINT "TO THE NEAREST HUNDRED
DOLLARS WHAT IS": PRINT "THE PER CAPITA
INCOME.": INPUT A$: IF A$ < > = "800"
THEN PRINT "THE INCOME IS NEARER $800."
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5998   INVERSE  :  PRINT  "PLACE A 10  ON
YOUR  MAP  WHERE  PERU      ":  PRINT  "IS
FOUND.  THEN  PRESS  A  10  AND  RETURN":
INPUT  A:  NORMAL  :  IF  A <  > 10 THEN
GOTO 5998
5999  XDRAW 3 AT 140,60
6000  HGR : HCOLOR= 2: ROT= 1: SCALE= 1
6001  PRINT " BLOAD SOUTH AMERICA-LEFT"
6010  PRINT D$;"BLOAD CHI/PAR"
6020  DRAW 1 AT 170,30
6030   PRINT  "THIS  COUNTRY  IS  ON  THE
PACIFIC  COAST":  PRINT "NAME IT.": INPUT
A$:  IF  A$  <   >  = "CHILE" THEN  PRINT
"CHILE IS THE NAME OF THIS COUNTRY"
6040   PRINT  "THE  PER  CAPITA INCOME IS
CLOSEST   TO":   PRINT  "A-$1000  B-$2000
C-$3000  D-$4000":  INPUT A$: IF A$ <  >
=  "A"  THEN   PRINT "THE AVERAGE CHILEAN
MAKES <$1000."
6050    PRINT  "GUANO  IS  HIGH  IN  WHAT
IMPORTANT  CHEMICAL";: INPUT A$: IF A$ <
>   =  "NITRATE"  THEN  PRINT "NITRATE IS
THE CHEMICAL FOUND."
6498   INVERSE  :  PRINT  "PLACE AN 11 ON
YOUR  MAP  WHERE  CHILE    ":  PRINT  "IS
FOUND.   THEN  PRESS  AN11  AND  RETURN":
INPUT  A:  NORMAL  :  IF  A <  > 11 THEN
GOTO 6498
6499  XDRAW 1 AT 170,30
6510  DRAW 2 AT 170,60
6998   INVERSE  :  PRINT  "PLACE A  12 ON
YOUR  MAP  WHERE  URUGUAY  ":  PRINT  "IS
FOUND.  THEN  PRESS  A  12  AND  RETURN":
INPUT  A:  NORMAL  :  IF  A <  > 12 THEN
GOTO 6998
6999  XDRAW 2 AT 170,60
7000  REM  NEW COUNTRY
7010  PRINT "³BLOAD ARG"
7020  DRAW 1 AT 160,30
7030   PRINT  "NAME THIS LARGE COUNTRY.":
INPUT  A$: IF A$ <  >  = "ARGENTINA" THEN
PRINT    "THIS   IS   ARGENTINA-LAND   OF
SILVER."
7040   PRINT  "WHAT  IS  THE  PER  CAPITA
INCOME?  A-$1000": PRINT "B-$2000 C-$5000
D-$6000":  INPUT  A$:  IF  A$ <  >  = "B"
THEN   PRINT  "ARGENTINA HAS AN INCOME OF
$2000/PERSON."
7050   PRINT  "TRUE  OR  FALSE--MEAT IS A
MAJOR  EXPORT.":  INPUT  A$:  IF  A$ <  >
"TRUE"  THEN  PRINT "MUCH BEEF COMES FROM
HERE."
7498   INVERSE  :  PRINT  "PLACE A  13 ON
YOUR  MAP  WHERE  ARGENTINA":  PRINT  "IS
FOUND.THEN  PRESS A 13 AND RETURN": INPUT
A: NORMAL : IF A <  > 13 THEN  GOTO 7498
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7499  XDRAW 1 AT 160,30
7500  REM  GET ISLANDS
7510  PRINT " BLOAD FALK/SGA"
7515  DRAW 1 AT 160,60
7520   PRINT  "WHAT  IS THE NAME OF THESE
ISLANDS?":  INPUT  A$:  IF  A$  <   >   =
"FALKLANDS"  THEN   PRINT  "THESE ARE THE
FALKLANDS!"
7598   INVERSE  :  PRINT  "PLACE  A 14 ON
YOUR  MAP  WHERE  THE":  PRINT  "FALKLAND
ISLANDS  ARE.  THEN  PRESS 14 AND": PRINT
"RETURN.":  INPUT  A:  IF A <  > 14 THEN
GOTO 7598: NORMAL
7600  DRAW 2 AT 160,60
7605  NORMAL
7610   PRINT "NAME THESE ISLANDS.": INPUT
A$:  IF  A$  <   >  "SOUTH GEORGIA" THEN
PRINT "THESE ARE THE SOUTH GEORGIAS."
7619   INVERSE  :  PRINT  "PLACE  A 15 ON
YOUR  MAP  WHERE  SOUTH":  PRINT "GEORGIA
IS.  ARE  FOUND  THEN  PRESS  15 ": PRINT
"AND  THEN RETURN.": NORMAL : INPUT A: IF
A <  > 15 THEN  GOTO 7619
7620  XDRAW 2 AT 160,60
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